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ABSTRACT

A roll-up closure device for typically collapsible vehicle shelters of the type having a structure made of assembled tubular members and cross-members and a complementary covering therefor made of a flexible plastics material and defining at the front end thereof a door opening. The side walls of the shelter are inclined in such a way as to diverge from top to bottom, whereby the door opening has generally a isosceles trapezoidal shape. The device includes a pair of opposed side guide rails mounted at laterally opposite sides of the door opening so as to follow the angled sides thereof, an overhead motor driven roll-up boom extending above the door opening, and a flexible closure shaped like the door opening and having its lateral side edges slidably engaged in the guide rails, whereby the closure device does not substantially reduce the lateral dimensions of the door opening. Cables attached to the roll-up boom are secured to the lateral edges of the closure so that the rotation of the boom causes the cables to wind around respective tapered pulleys provided near each end of the boom with the closure in a rolled attitude extending between the pulleys. Stretched elastics are secured to the lower part of the closure to laterally retract the side edges of the latter towards each other as the closure is being raised. A tensioning mechanism is provided to ensure that the cables remain taut at any position of the closure.

19 Claims, 5 Drawing Sheets